



2009-10 Influenza Epidemiology and Surveillance Weekly Status Report for Kansas

Week Ending December 26, 2009

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Table of Contents

Executive Summary	4, 5
Outpatient Influenza-like Illness (ILI)	
Percentage of Patients with ILI seen at Kansas ILINet Clinics, by Region	6
Map of ILINet Clinics and Regions	6
Percentage of Patients with ILI seen at Kansas ILINet Clinics, by Site	7
Percentage of Visits for ILI Reported by ILINet Sites, Kansas 2007-08, 2008-09, and 2009-10 Influenza Seasons	8
Percentage of Visits for ILI Reported by ILINet Sites, by Region for 2009-10 Influenza Season	9
Hospital Admissions for Pneumonia or Influenza	
Rate of Hospital Admissions due to Pneumonia or Influenza per 100 Bed Days by Preparedness Region	10
Rate of Hospital Admissions for Pneumonia or Influenza per 100 Bed Days by EMSysystem Hospital	11
Number of Admissions for Pneumonia or Influenza, by Age Group	12
Rate of Hospitalizations due to Pneumonia or Influenza per 100 Bed-Days	12
Rate of Hospitalizations due to Pneumonia or Influenza per 100 Bed-Days by Preparedness Region	13
Hospital Situational Awareness	
Percentage of Hospitals with Increased Demand for Patient Care Services by Report Date	14
Increased Demand for Patient Case Services by EMSysystem Hospital	15
Percentage of Hospitals with Increased Demand for Patient Care Services by Preparedness Region	16
Mortality Due to Pneumonia or Influenza	
Pneumonia or Influenza Deaths by Date of Report and Age Group	17
Cumulative Number of Pneumonia or Influenza Deaths Reported by Age Group	17

Table of Contents (continued)

Self-Reported Influenza-like Illness (ILI)

Percentage of Adults Who Reported ILI in Previous Two Weeks	18
Percentage of Adults and Children Who Reported ILI in Previous Four Weeks	18
Percentage of Households with One or More Persons with ILI in Previous Four Weeks	19

School Absenteeism Surveillance

Percentage of Elementary Schools Reporting 10% or Greater Absenteeism by Preparedness Region and by County	20
Percentage of Middle Schools Reporting 10% or Greater Absenteeism by Preparedness Region and by County	21
Percentage of High Schools Reporting 10% or Greater Absenteeism by Preparedness Region and by County	22
Percentage of Schools Reporting 10% or Greater Absenteeism by School Category	23
Percentage of Schools Reporting 10% or Greater Absenteeism by Preparedness Region and School Category	24
Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County	25

Laboratory Testing at Kansas Health and Environmental Laboratories (KHEL)

Influenza Tests Conducted by Week at KHEL	27
Influenza Strains Detected at KHEL	27
Influenza Specimens Tested at KHEL by Hospitalization Status	28

Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases

2009 H1N1-Influenza A Virus Transmission Level by County	29
Characteristics of Laboratory Confirmed Cases	30
Age Distribution of Laboratory Confirmed Cases	30

Technical Notes 31

Data Quality Indicators 33

Appendix

Number and County Location of ILINet Clinic Sites	34
List of Hospitals Included in Hospital Surveillance Section for Current Report	35

Executive Summary

***D. Charles Hunt, MPH, State Epidemiologist and Director
Bureau of Surveillance and Epidemiology
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Overview

Despite a substantial increase in the proportion of submitted specimens that tested positive for influenza A (2009 H1N1) this week, from 5.6% to 10.5%, overall influenza activity has decreased in Kansas. This is reflective of the national influenza indicators as well. The proportion of outpatient visits for influenza-like illness (ILI) reported in the United States was 2.3% for the week ending December 19th which is at the national baseline. Seven of the ten U. S. regions reported influenza-like illness (ILI) below region-specific baseline levels.

Last week, in Kansas, a considerable increase in influenza activity in the southeast region of the state was noted. However, ILINet sites continued to reported data after the deadline and the percentage of outpatient visits for ILI decreased from 9.4% to 6.3% for the week ending December 19th. A substantial decrease in outpatient ILI visits in the southeast region from 6.3% to 1.2% was noted from the week ending December 19th to the week ending December 26th.

Outpatient Visits for Influenza-like Illness (ILINet)

Thirty-eight (54%) of the 71 ILINet Sites in Kansas reported ILI data for the week ending December 26th. There has been a slight decrease in the statewide percentage of ILI visits to outpatient clinics from 1.4% for the week ending December 19th to 1.1% for the week ending December 26th. Nationally, the rate of ILI visits at outpatient clinics was 2.3% for the week ending December 19th which is at the national baseline.

A notable decrease of ILI visits to outpatient clinics occurred in the northwest and southeast regions of the state. In the northwest, rates decreased from 4.2% for the week ending December 19th to 0.4% for the week ending December 26th. In the southeast, rates decreased from 6.3% for the week ending December 19th to 1.2% for the week ending December 26th. However, these results should be interpreted with caution. The proportion of ILINet sites reporting data from the northwest region decreased from 75% for the week ending December 19th to 50% for the week ending December 26th. The southeast region experienced an increased proportion of ILINet sites reporting from 71% for the week ending December 19th to 86% for the week ending December 26th.

Hospital Admissions for Pneumonia or Influenza (EMSystems)

For the week ending December 26th, 85 (65%) of the 131 hospitals reported 260 patients admitted for pneumonia or influenza. The statewide rate of hospital admissions per 100 bed-days increased slightly to 0.50. All regions, except south central, experienced an increase in the rate of hospital admission per 100 bed-days. The largest increase was seen in the northwest region with a 41% increase from the previous week.

Hospital Situational Awareness

On Wednesday, December 23th, 113 (84%) of the 134 hospitals reported situational awareness information through EMSystems. Only one hospital in Leavenworth County reported an increased demand for patient care services.

Mortality Due to Pneumonia or Influenza

Twenty-nine (7.2%) of the 401 deaths reported to KDHE during the week ending December 26th were due to pneumonia or influenza. Nationally, deaths attributed to pneumonia and influenza has decreased to 7.2% during the week ending December 19th. This marks the first time in 11 weeks that this proportion has been below the epidemic threshold of 7.3%. However, it should be noted that this proportion is still above the seasonal baseline.

Executive Summary (continued)

Self-reported Influenza-like Illness

New data from the Behavioral Risk Factor Surveillance System (BRFSS) is available on a biweekly basis. No new information is presented in this week's report.

School Absenteeism

Schools across Kansas are on Winter Break. Therefore no data was reported for the week ending December 26, 2009. School-based surveillance will resume once students return to class.

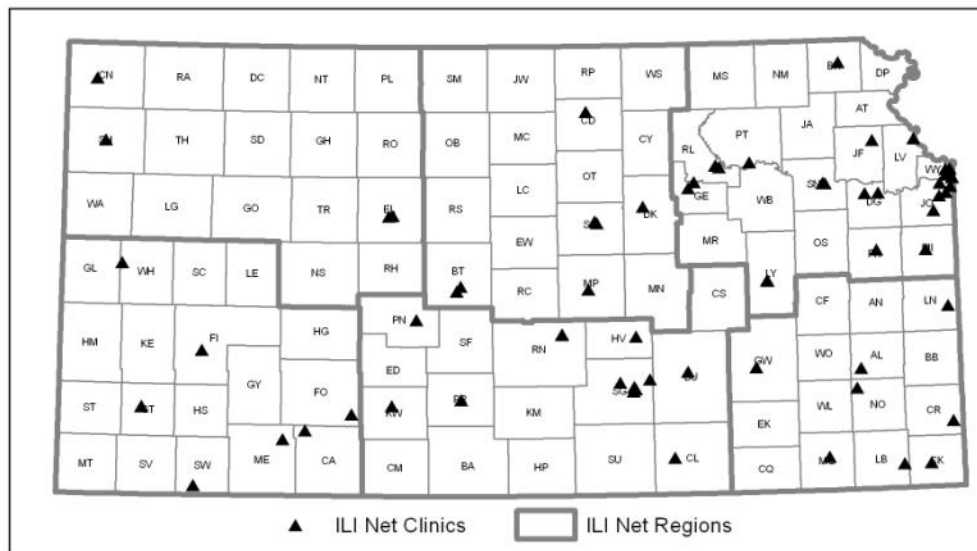
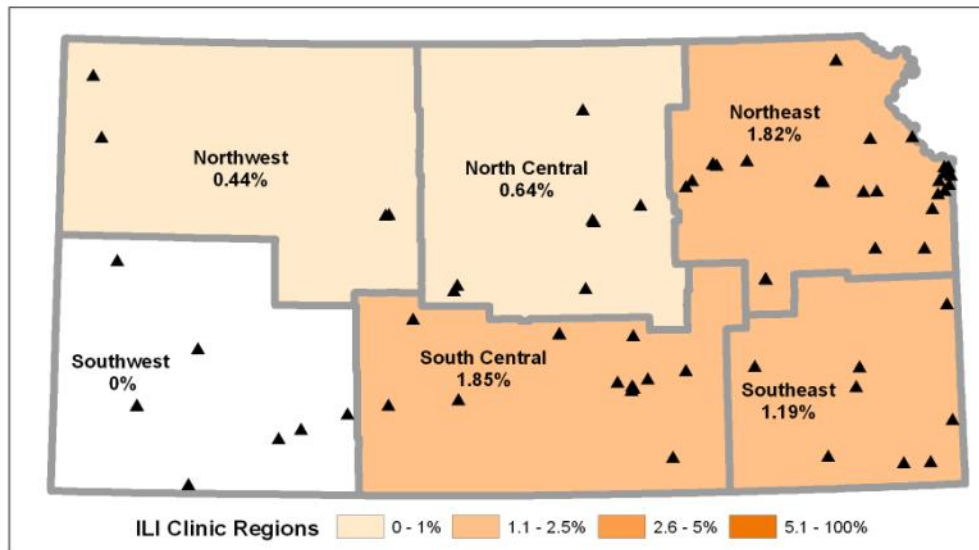
Laboratory-based Surveillance

This week the percentage of submitted specimens that tested positive for influenza A (2009 H1N1) nearly doubled from 5.6% to 10.5%. During the week ending December 26th, 57 specimens were tested at KDHE Laboratories (KHEL). Of these, six were positive for influenza A (2009 H1N1). Since October 10th, a total of 2,034 specimens have been submitted to KHEL for testing. Of these, 870 (43%) have tested positive for influenza A (2009 H1N1).

Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending December 26, 2009



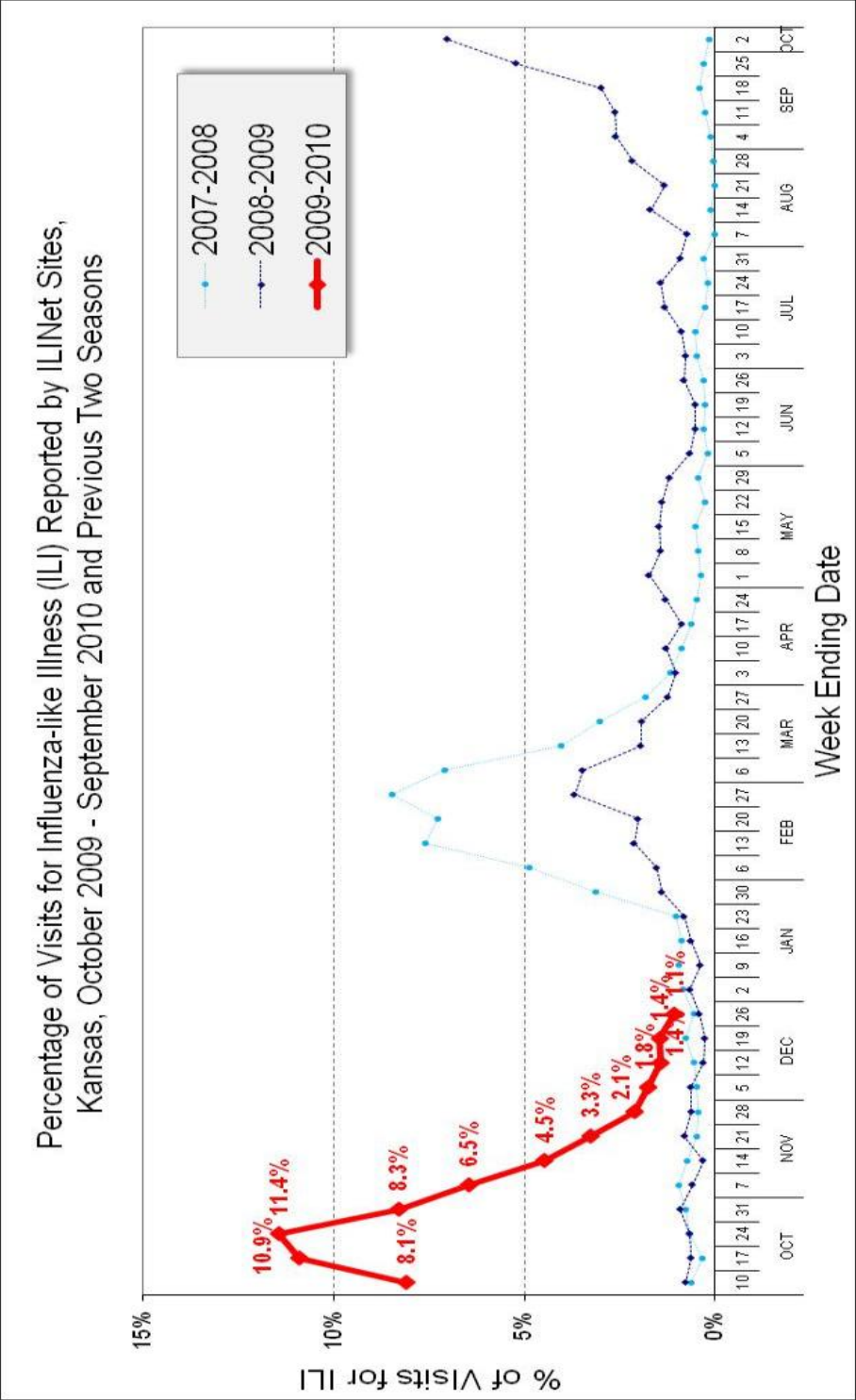
Percentage of Visits
for Influenza-like Illness (ILI)
Reported by ILINet Sites, by Region
December 20 - December 26, 2009



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Data Sources: KS Department of Health and Environment

**Outpatient Influenza-like Illness
(Surveillance Conducted via ILINet)
Week ending December 26, 2009**



The X-axis represents the week ending dates for the 2009-2010 surveillance year. Data from the previous two surveillance years are plotted according to week number corresponding to the 2009-2010 week ending date. Week 40 of 2009 ended October 10, 2009. Week 40 of 2008 ended October 4, 2008, and week 40 of 2007 ended October 6, 2007, and so on. Week 53 was unique to the 2008-2009 season; data for that week has been excluded from the chart. ILINet sites vary in location, number, and type (student health, family practice, etc.) each season as new sites are enrolled and former sites are deactivated.

Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending December 26, 2009



Percentage of Visits
for Influenza-like Illness (ILI)
Reported by ILINet Sites, by Region and Week
as Reported on December 26, 2009

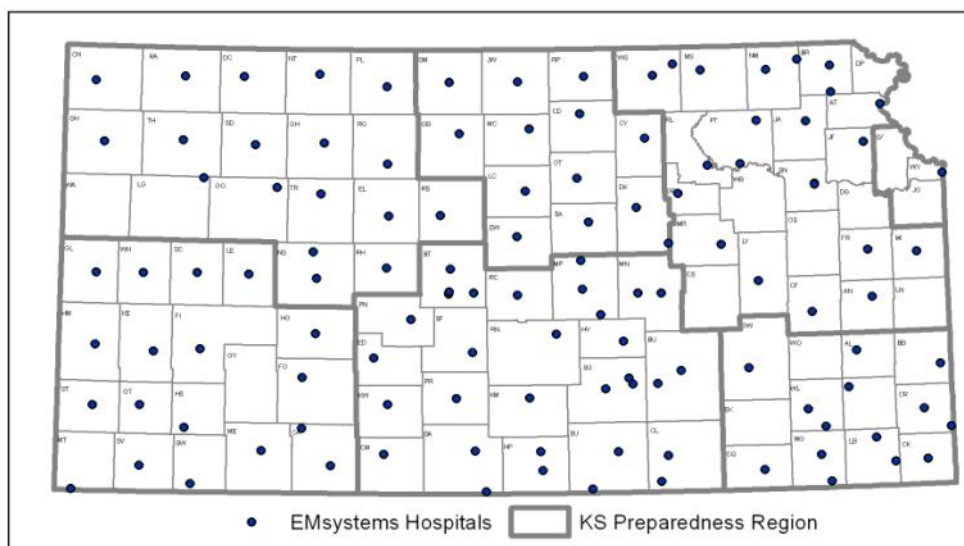
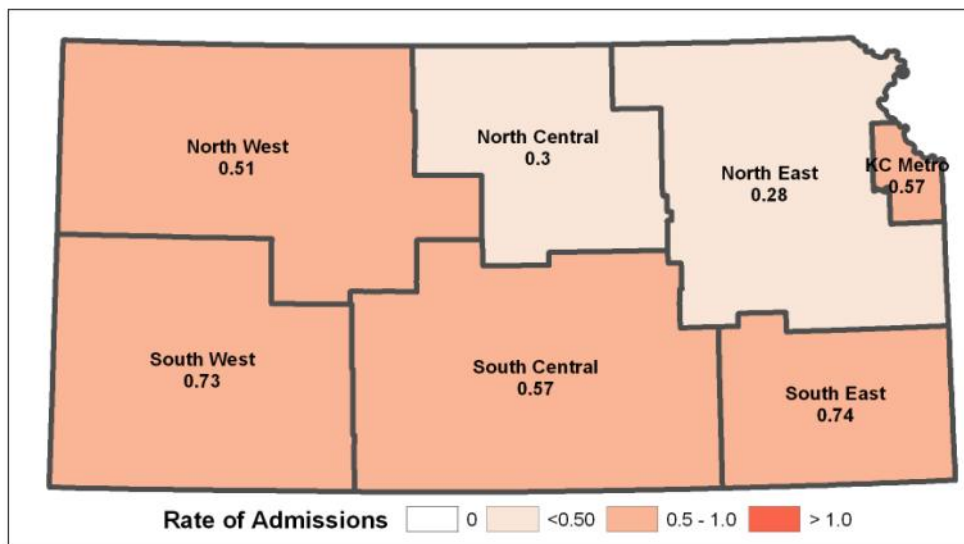


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Hospital Admissions (Surveillance Conducted via EMSystems) Week ending December 26, 2009



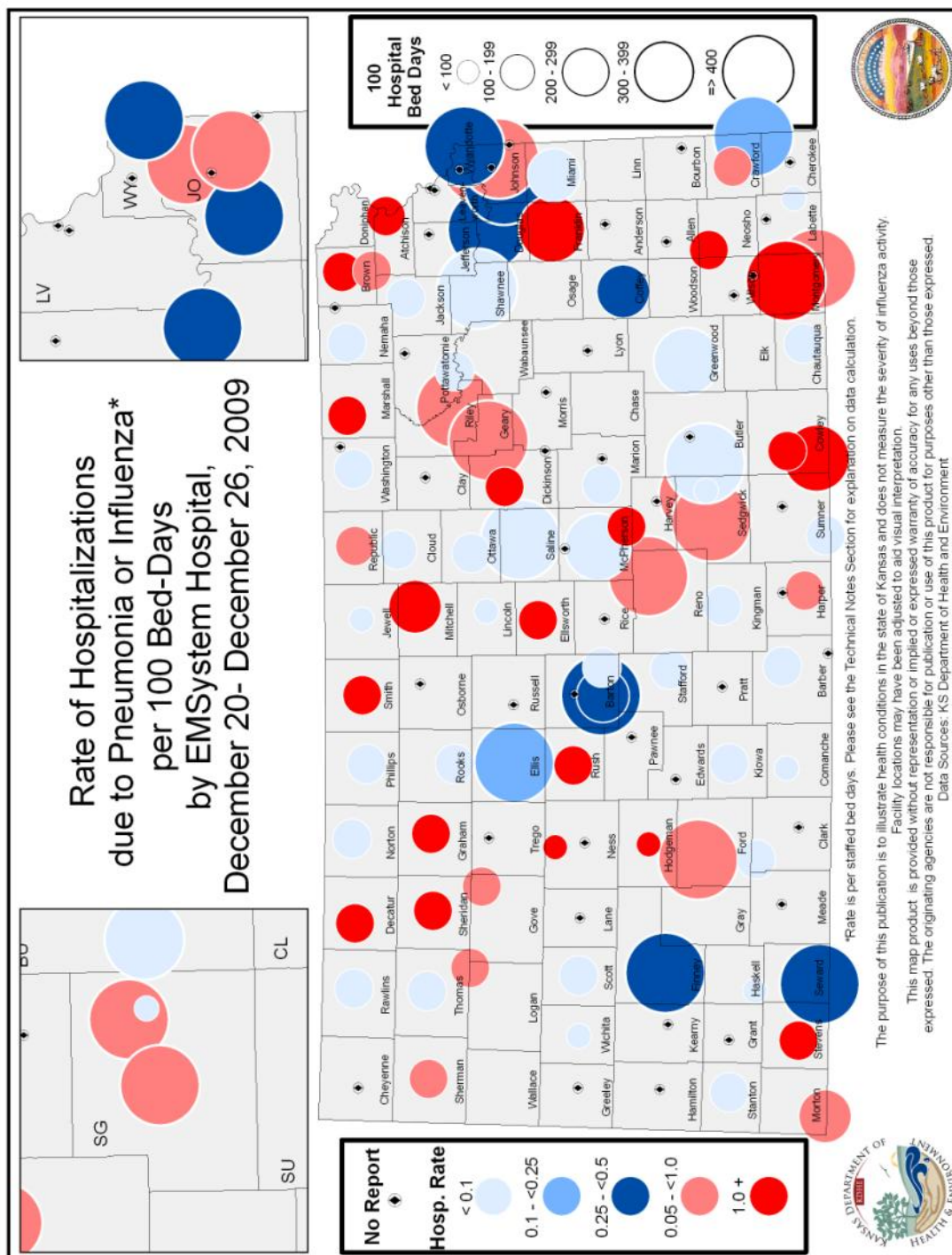
Rate of Hospitalizations
due to Pneumonia or Influenza
per 100 Bed-Days*
by Preparedness Region,
December 20 - December 26, 2009



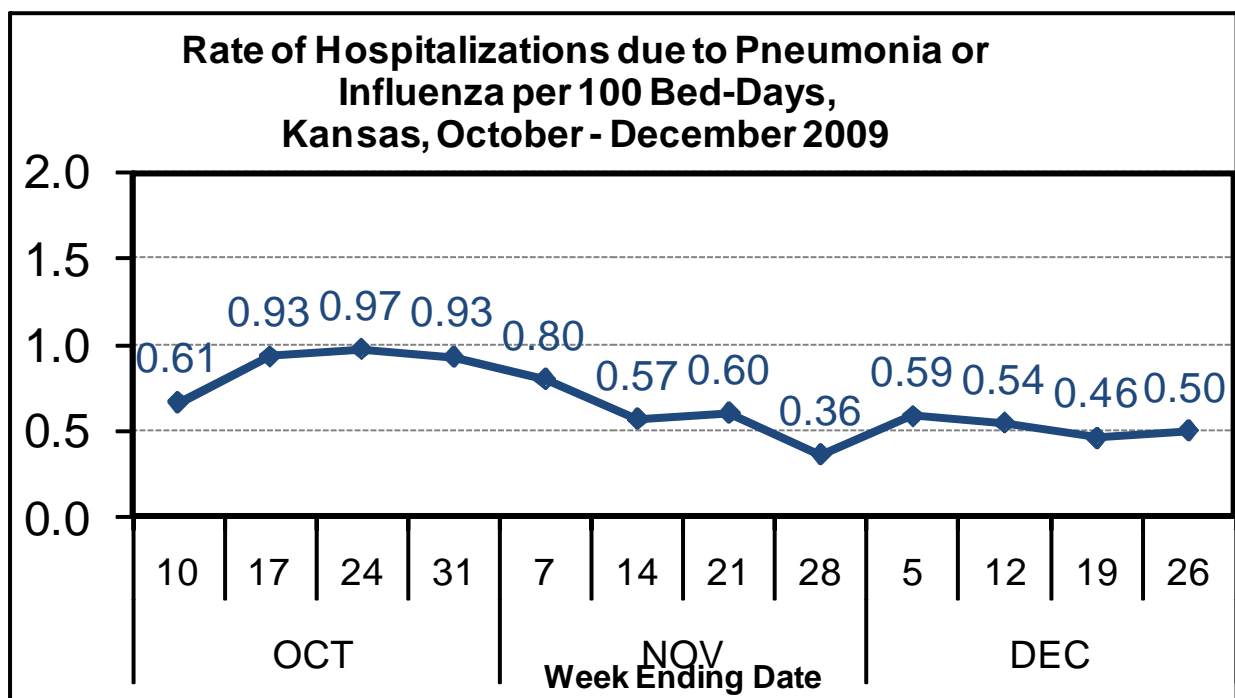
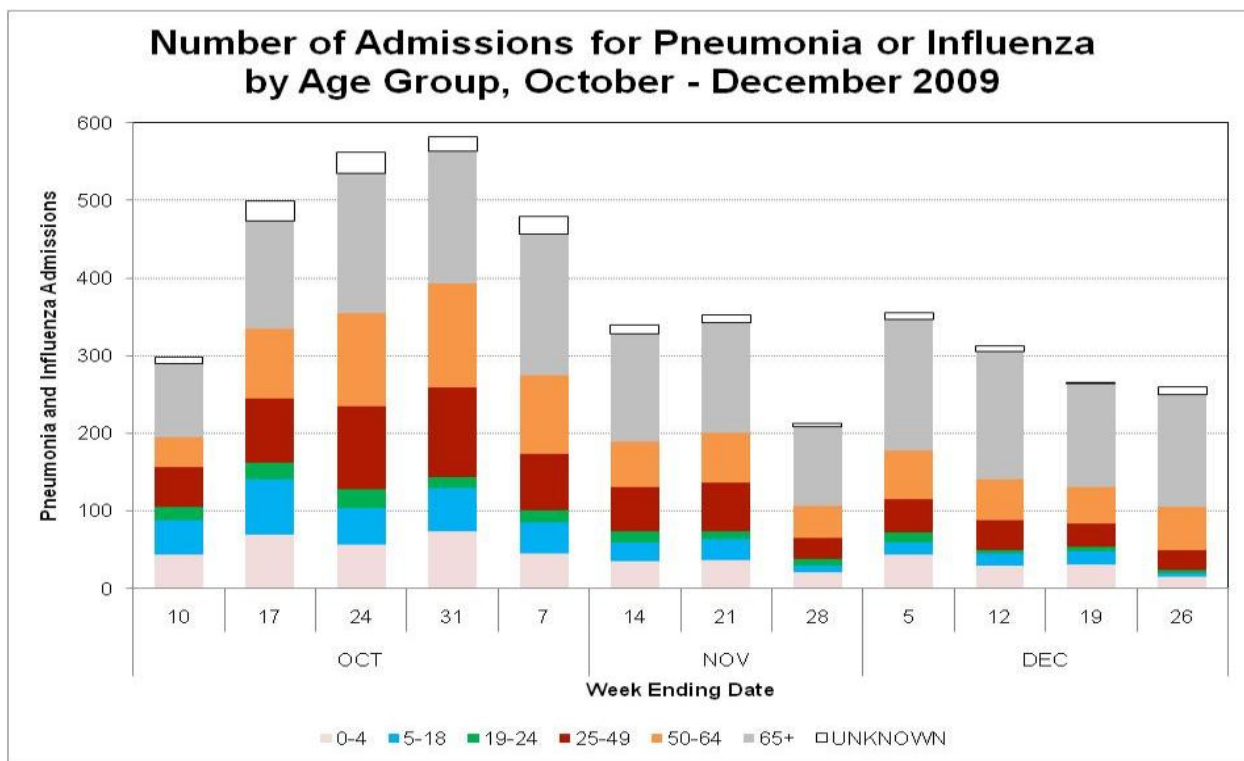
*Rate is per staffed bed days. Please see the Technical Notes Section for explanation on data calculation.

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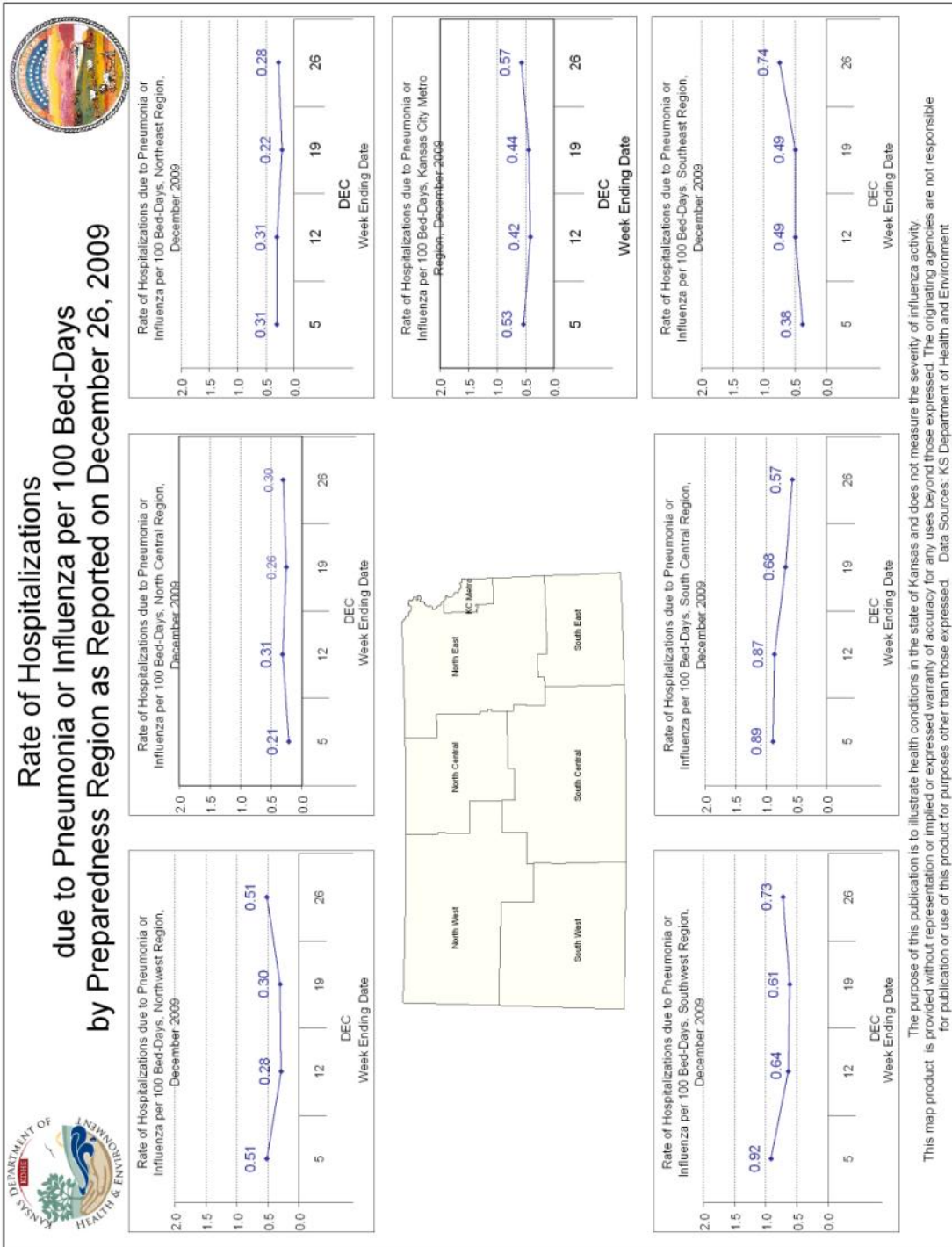
Hospital Admissions (Surveillance Conducted via EMSystems) Week ending December 26, 2009



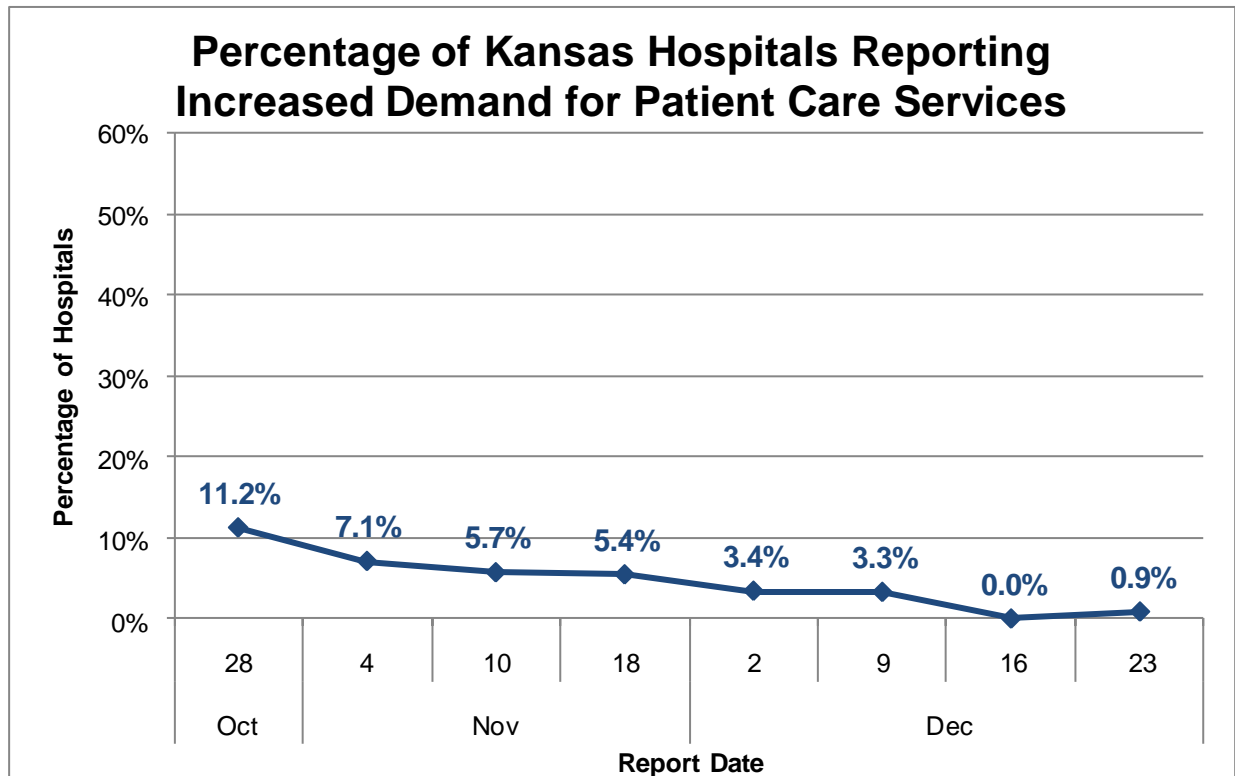
Hospital Admissions (Surveillance Conducted via EMSystems) Week ending December 26, 2009



Hospital Admissions (Surveillance Conducted via EMSystems) Week ending December 26, 2009



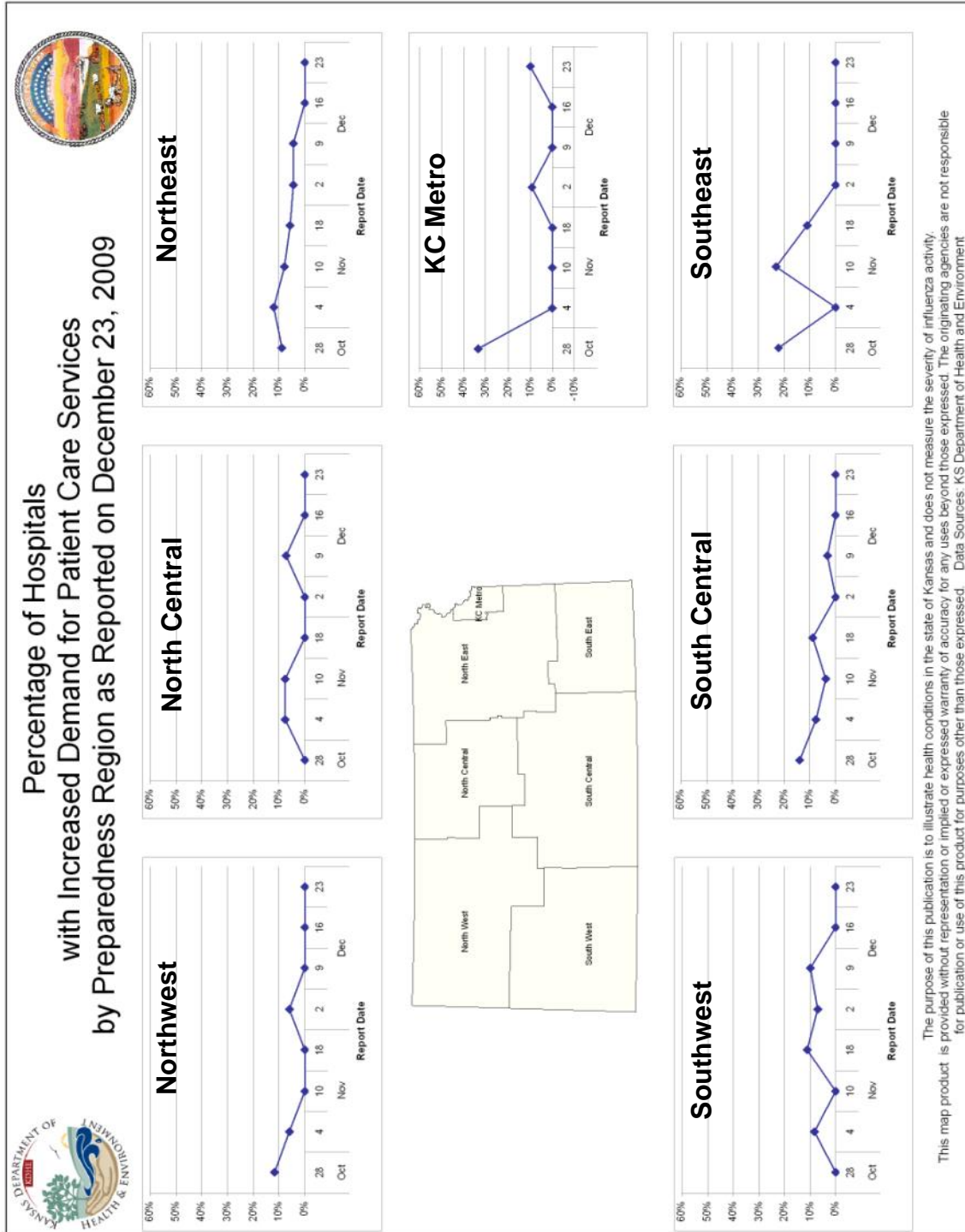
Hospital Situational Awareness (Surveillance Conducted via EMSystems)



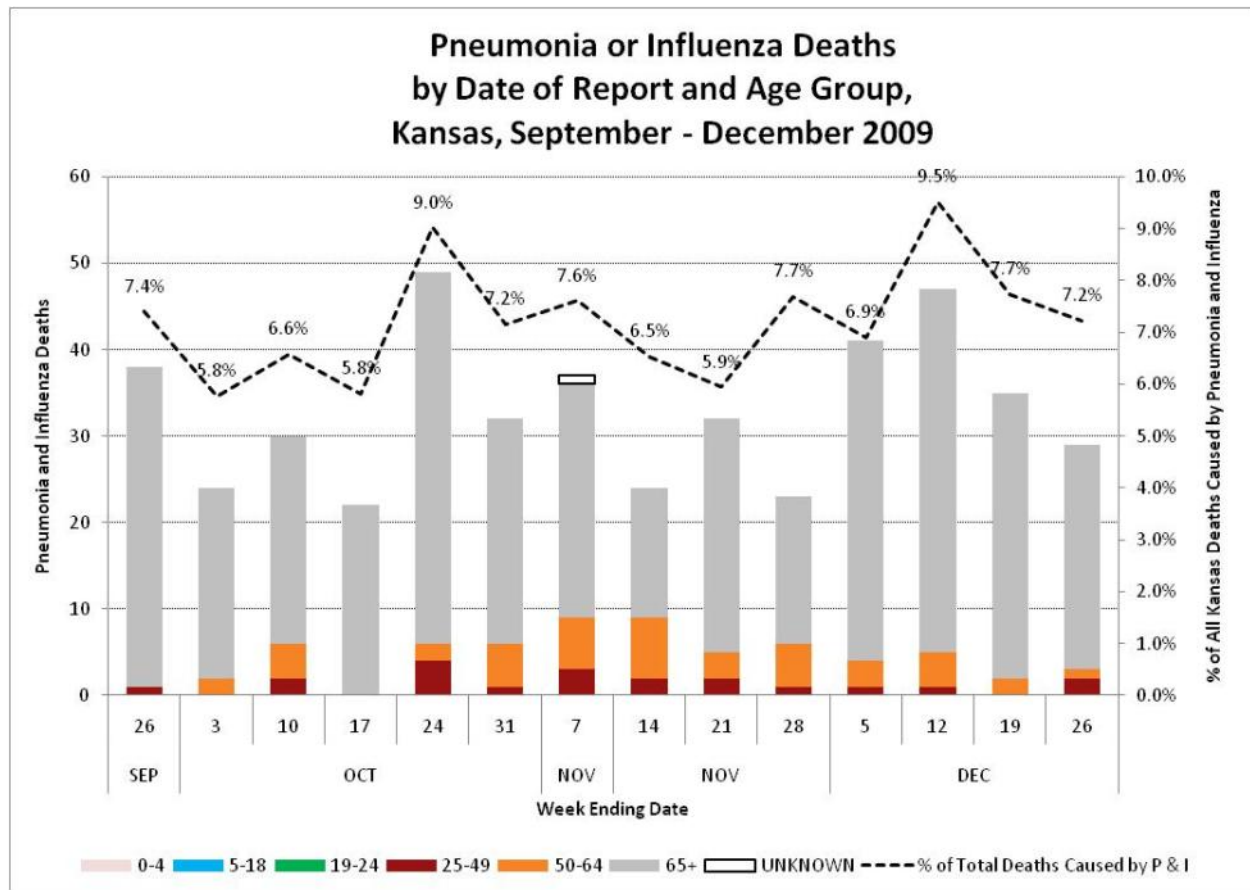
Hospital Situational Awareness (Surveillance Conducted via EMSystems)



Hospital Situational Awareness (Surveillance Conducted via EMSystems)



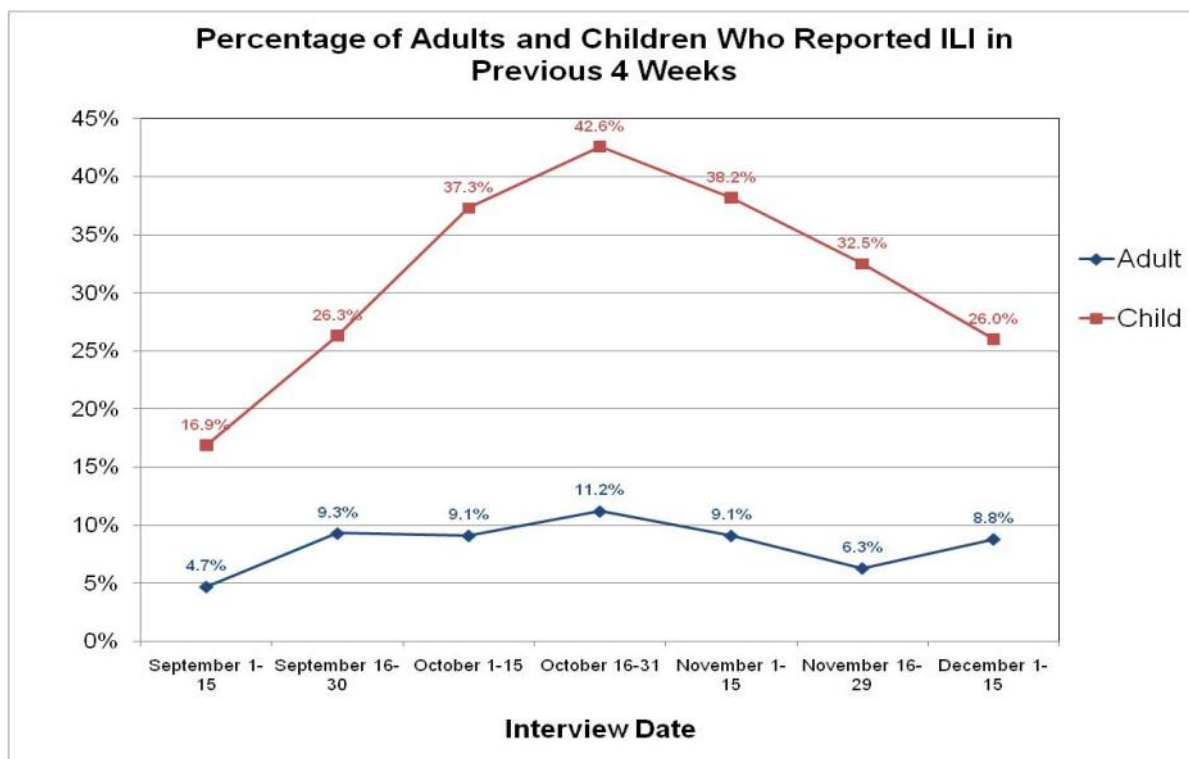
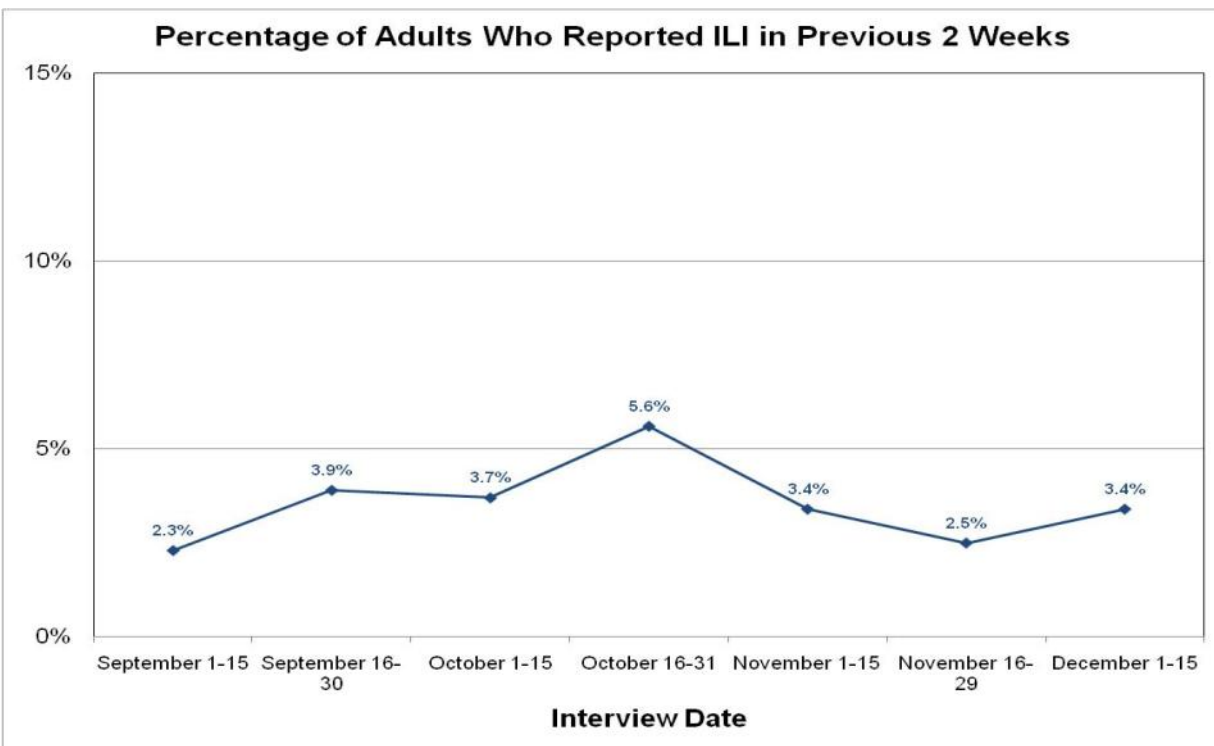
Mortality Due to Pneumonia or Influenza (Surveillance Conducted via KDHE Vital Statistics)



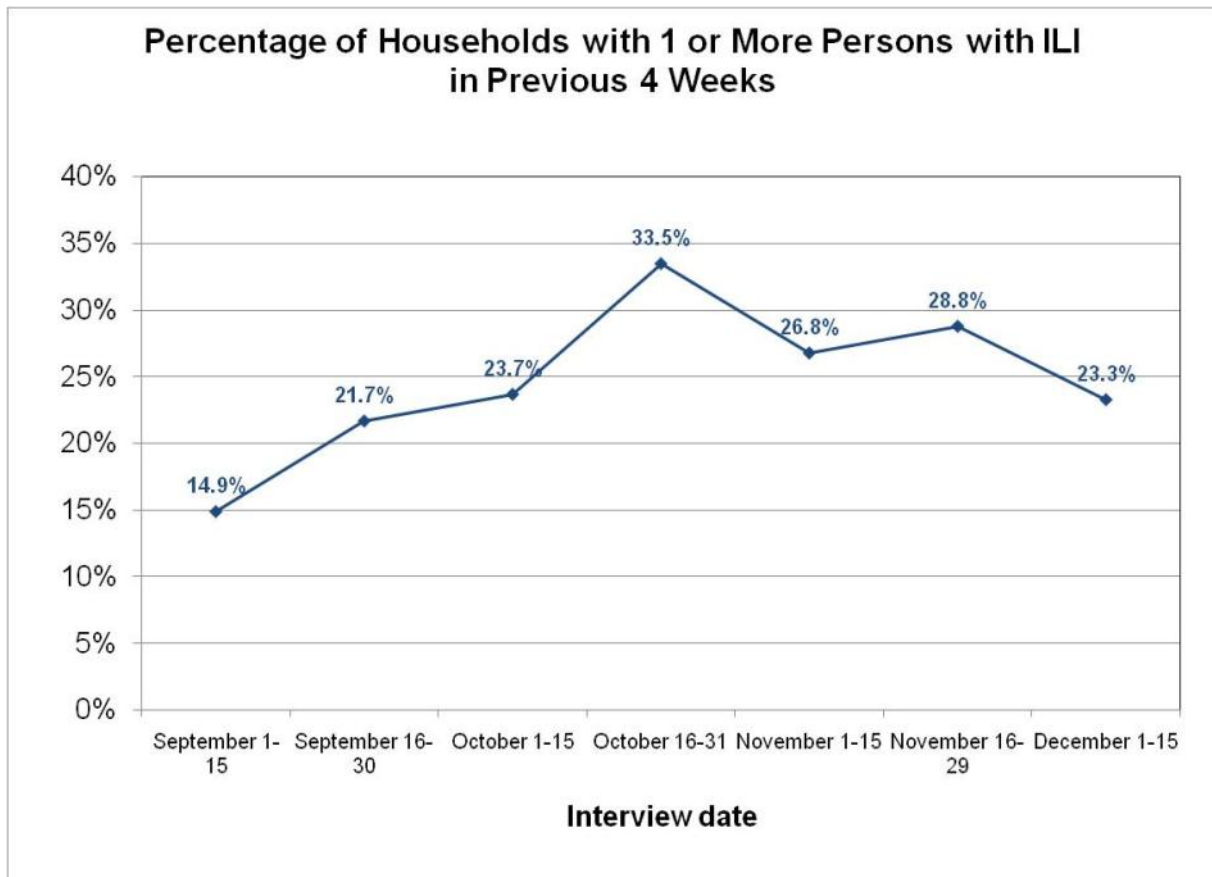
Cumulative Number of Pneumonia or Influenza Deaths Reported by Age Group, September 26—December 26, 2009

0-4	5-18	19-24	25-49	50-64	65+	Unknown	Total
0	0	0	20	44	398	1	463

Self-Reported Influenza-like Illness (Surveillance Conducted via KDHE BRFSS)



Self-Reported Influenza-like Illness (Surveillance Conducted via BRFSS)



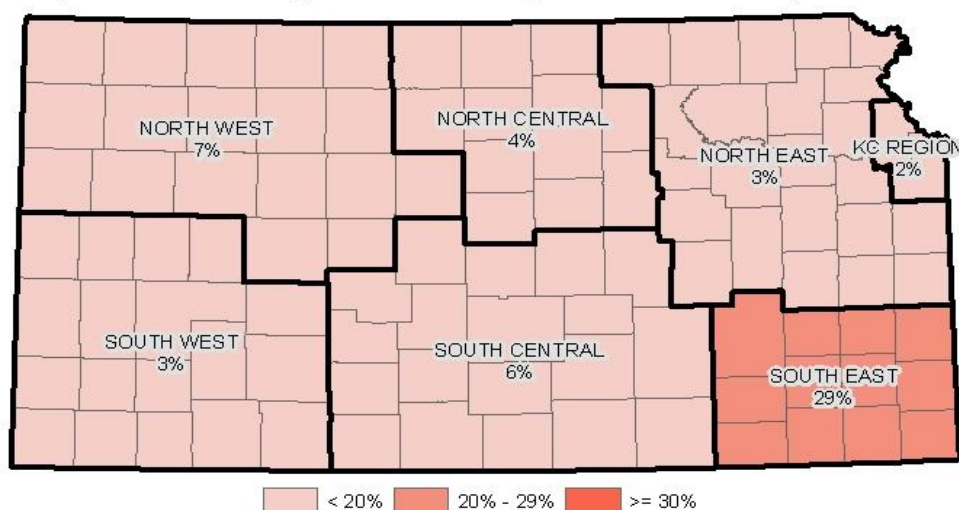
School Absenteeism (Surveillance Conducted via Health Departments) Week ending December 18, 2009*



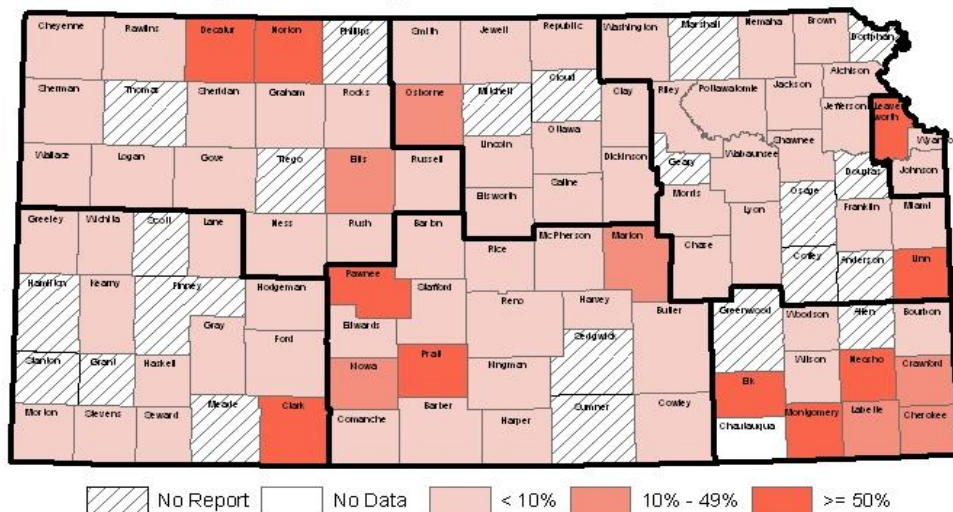
Percentage of Schools Reporting
10% or Greater Absenteeism
December 14 - December 18, 2009



Preparedness Region Summary for Elementary Schools



County Summary for Elementary Schools



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*No data reported for the week ending December 26, 2009 due to Winter Break.

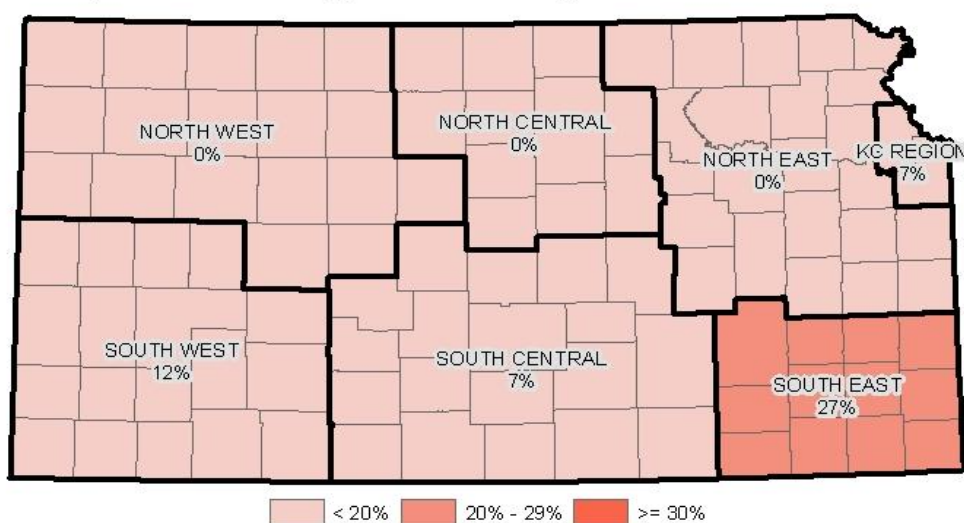
School Absenteeism (Surveillance Conducted via Health Departments) Week ending December 18, 2009*



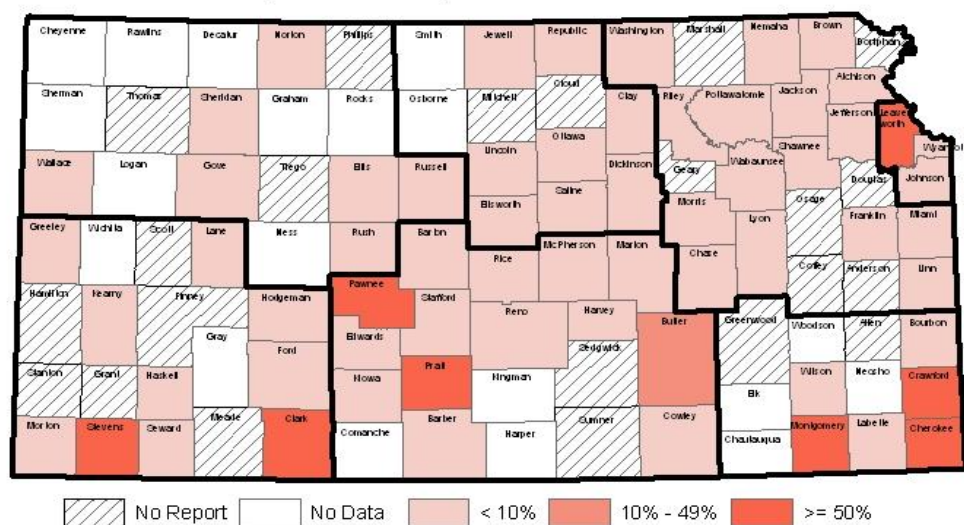
Percentage of Schools Reporting
10% or Greater Absenteeism
December 14 - December 18, 2009



Preparedness Region Summary for Middle Schools



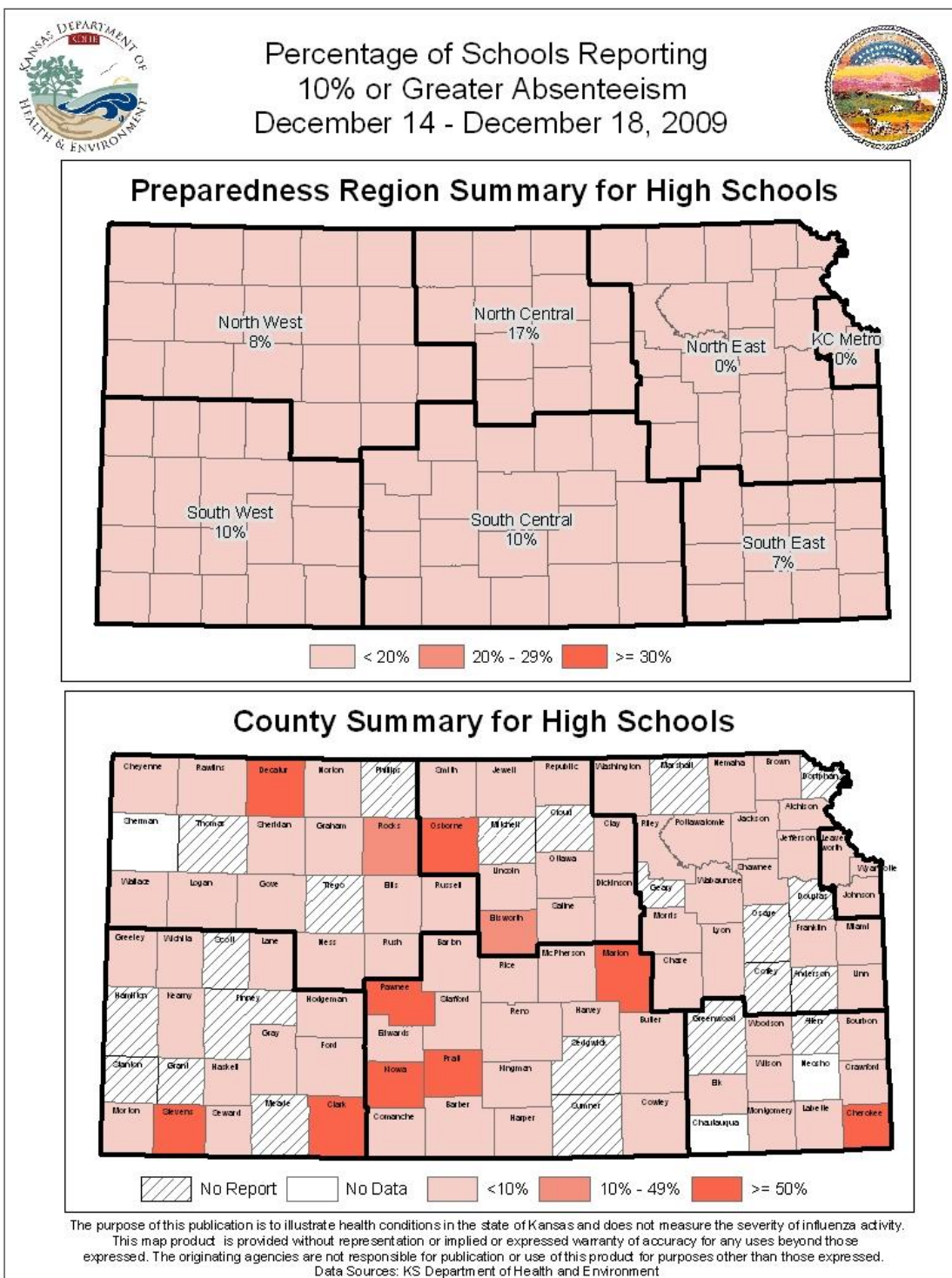
County Summary for Middle Schools



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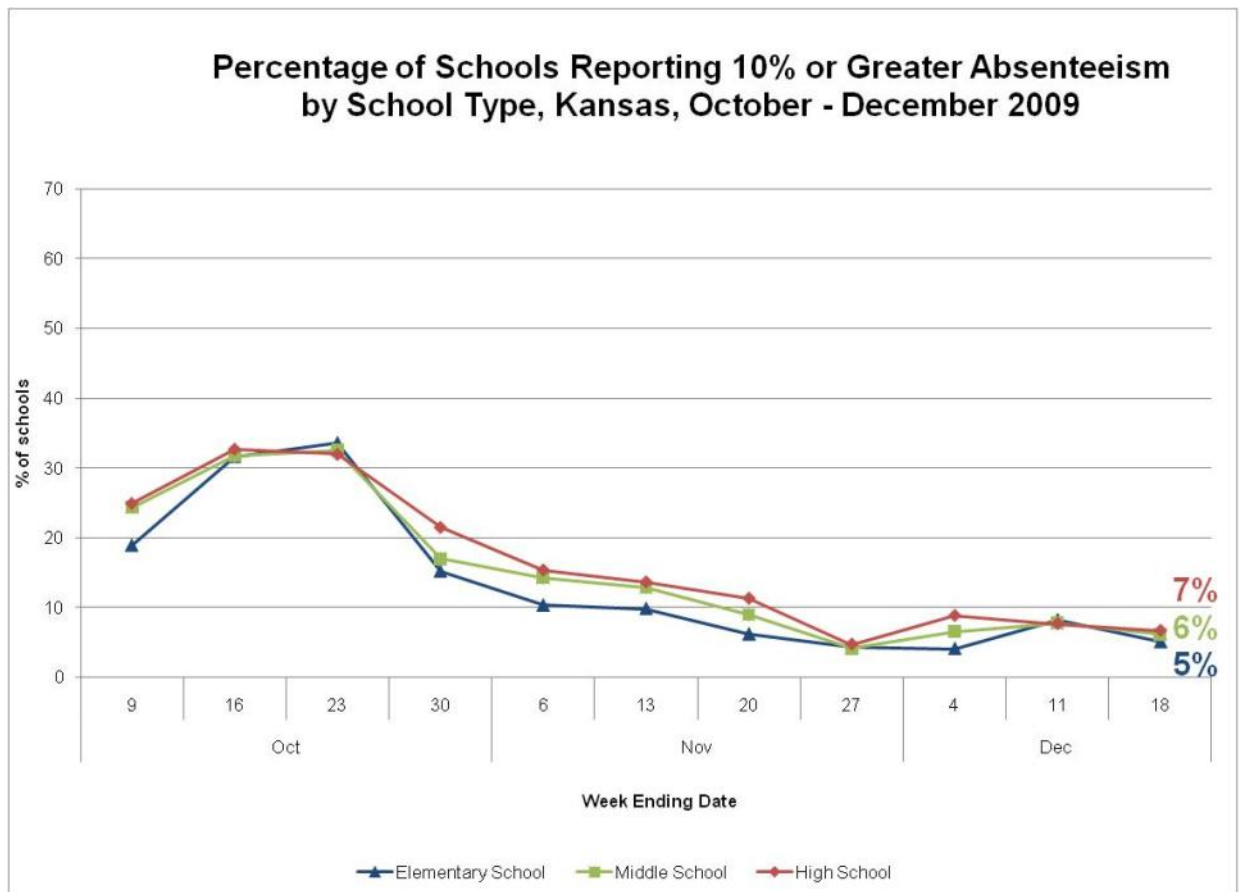
*No data reported for the week ending December 26, 2009 due to Winter Break.

School Absenteeism (Surveillance Conducted via Health Departments) Week ending December 18, 2009*



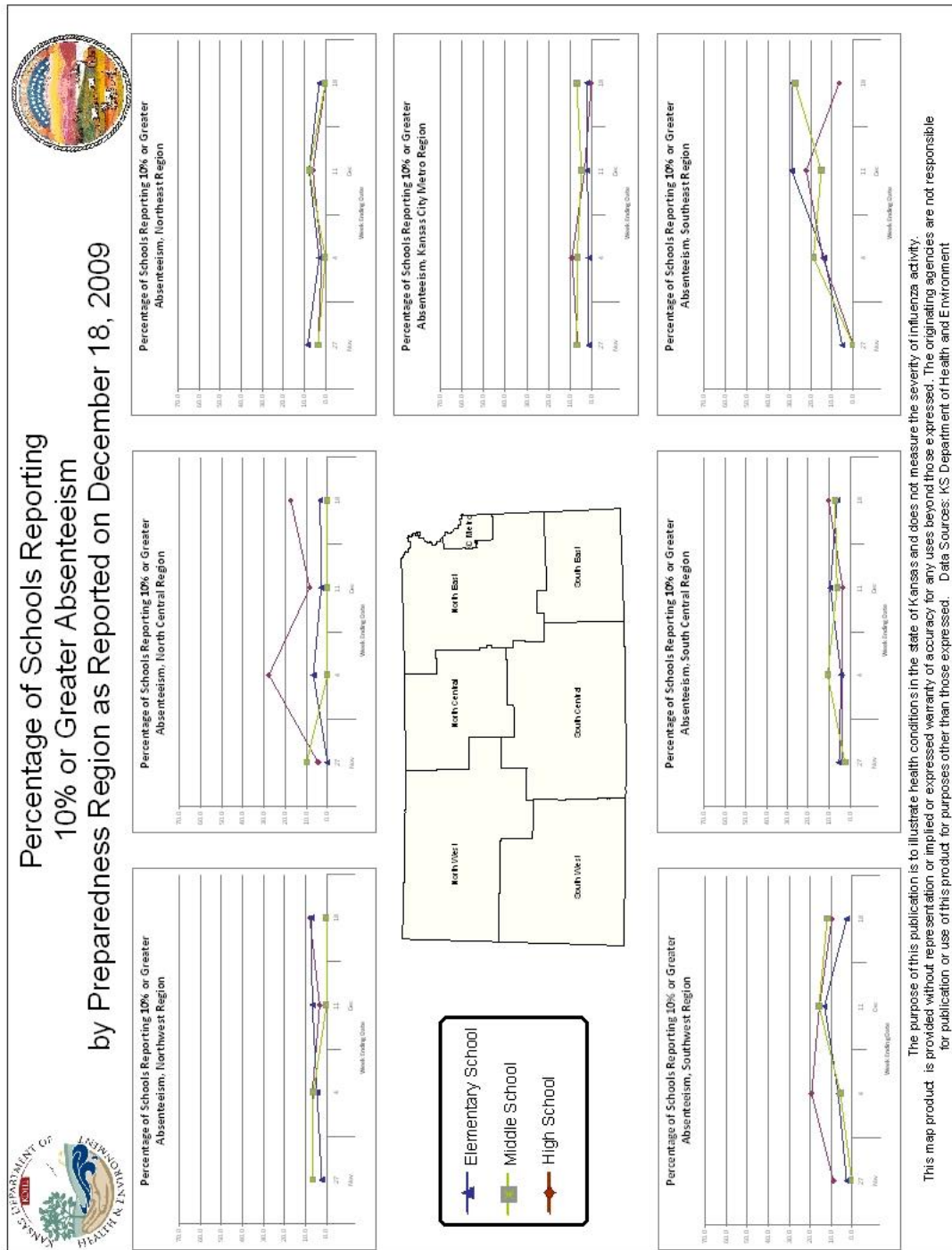
*No data reported for the week ending December 26, 2009 due to Winter Break.

School Absenteeism (Surveillance Conducted via Health Departments) Week ending December 18, 2009*



*No data reported for the week ending December 26, 2009 due to Winter Break.

School Absenteeism (Surveillance Conducted via Health Departments) Week ending December 18, 2009*




*No data reported for the week ending December 26, 2009 due to Winter Break.

Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending December 18, 2009*

County	Elementary School	Middle School	High School
ALLEN			
ANDERSON			
ATCHISON	0%	0%	0%
BARBER	0%	0%	0%
BARTON	0%	0%	0%
BOURBON	0%	0%	0%
BROWN	0%	0%	0%
BUTLER	0%	11%	0%
CHASE	0%	0%	0%
CHAUTAUQUA			
CHEROKEE	33%	100%	100%
CHEYENNE	0%		0%
CLARK	50%	50%	50%
CLAY	0%	0%	0%
CLOUD			
COFFEY			
COMANCHE	0%		0%
COWLEY	0%	0%	0%
CRAWFORD	25%	100%	0%
DECATUR	100%		100%
DICKINSON	0%	0%	0%
DONIPHAN			
DOUGLAS			
EDWARDS	0%	0%	0%
ELK	50%		0%
ELLIS	10%	0%	0%
ELLSWORTH	0%	0%	33%
FINNEY			
FORD	0%	0%	0%
FRANKLIN	0%	0%	0%
GEARY			
GOVE	0%	0%	0%
GRAHAM	0%		0%
GRANT			
GRAY	0%		0%


County	Elementary School	Middle School	High School
GREELEY	0%	0%	0%
GREENWOOD			
HAMILTON			
HARPER	0%		0%
HARVEY	0%	0%	0%
HASKELL	0%	0%	0%
HODGEMAN	0%	0%	0%
JACKSON	0%	0%	0%
JEFFERSON	0%	0%	0%
JEWELL	0%	0%	0%
JOHNSON	0%	0%	0%
KEARNY	0%	0%	0%
KINGMAN	0%		0%
KIOWA	33%	0%	50%
LABETTE	14%	0%	0%
LANE	0%	0%	0%
LEAVENWORTH	60%	75%	0%
LINCOLN	0%	0%	0%
LINN	75%	0%	0%
LOGAN	0%		0%
LYON	0%	0%	0%
MARION	25%	0%	67%
MARSHALL			
MCPHERSON	0%	0%	0%
MEADE			
MIAMI	0%	0%	0%
MITCHELL			
MONTGOMERY	50%	50%	0%
MORRIS	0%	0%	0%
MORTON	0%	0%	0%
NEMAHA	0%	0%	0%
NEOSHO	100%		
NESS	0%		0%
NORTON	50%	0%	0%
OSAGE			

 No report or no data available

*No data reported for the week ending December 26, 2009 due to Winter Break.

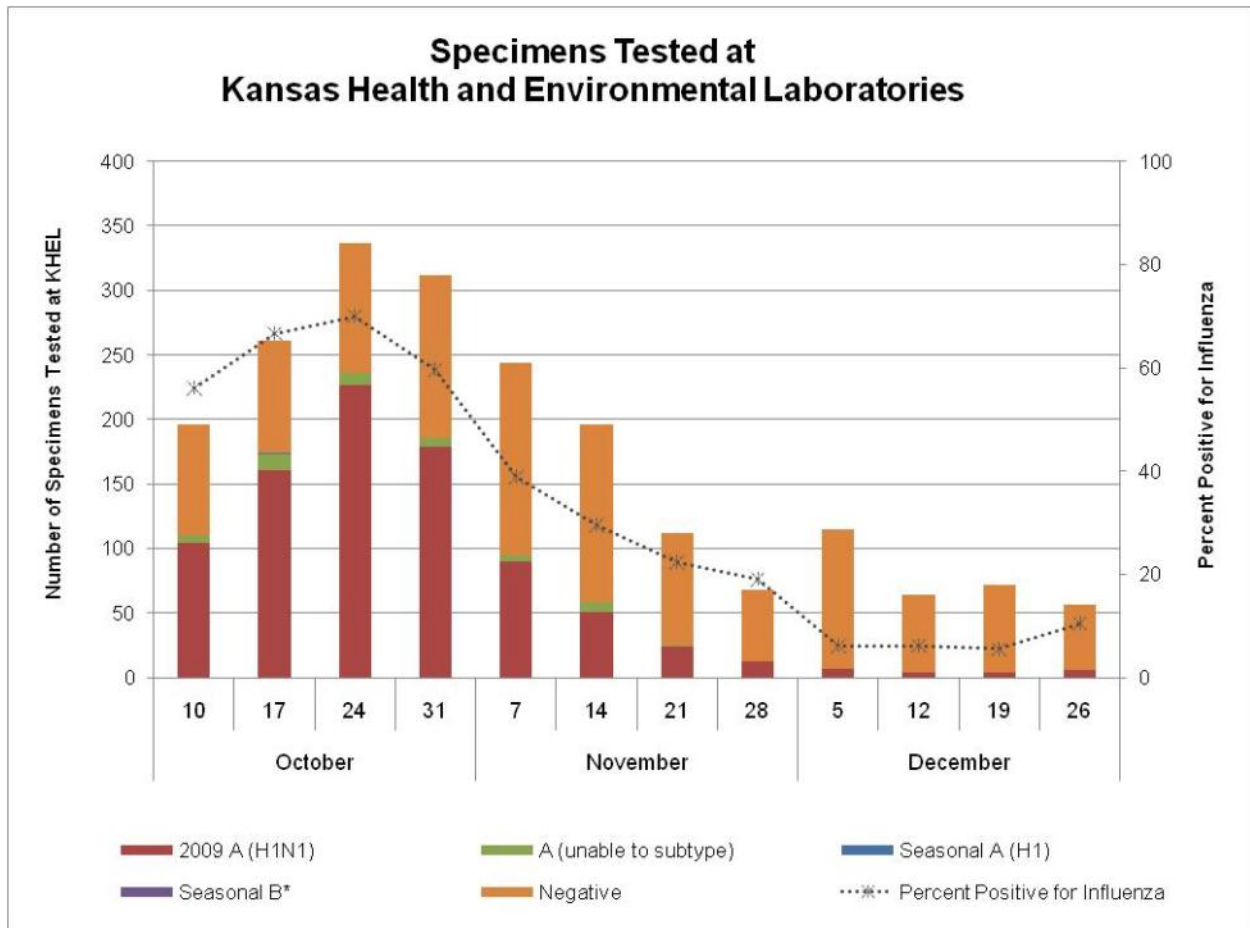
Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending December 18, 2009*

County	Elementary School	Middle School	High School
OSBORNE	33%		100%
OTTAWA	0%	0%	0%
PAWNEE	75%	100%	100%
PHILLIPS			
POTTAWATOMIE	0%	0%	0%
PRATT	100%	50%	50%
RAWLINS	0%		0%
RENO	0%	0%	0%
REPUBLIC	0%	0%	0%
RICE	0%	0%	0%
RILEY	0%	0%	0%
ROOKS	0%		33%
RUSH	0%	0%	0%
RUSSELL	0%	0%	0%
SALINE	0%	0%	0%
SCOTT			
SEDGWICK			
SEWARD	0%	0%	0%
SHAWNEE	0%	0%	0%
SHERIDAN	0%	0%	0%
SHERMAN	0%		
SMITH	0%		0%
STAFFORD	0%	0%	0%
STANTON			
STEVENS	0%	100%	50%
SUMNER			
THOMAS			
TREGO			
WABAUNSEE	0%	0%	0%
WALLACE	0%	0%	0%
WASHINGTON	0%	0%	0%
WICHITA	0%		0%
WILSON	0%	0%	0%
WOODSON	0%		0%
WYANDOTTE	0%	0%	0%

 No report or no data available

*No data reported for the week ending December 26, 2009 due to Winter Break.

Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)



Kansas Department of Health and Environmental Laboratories October 10—December 19, 2009

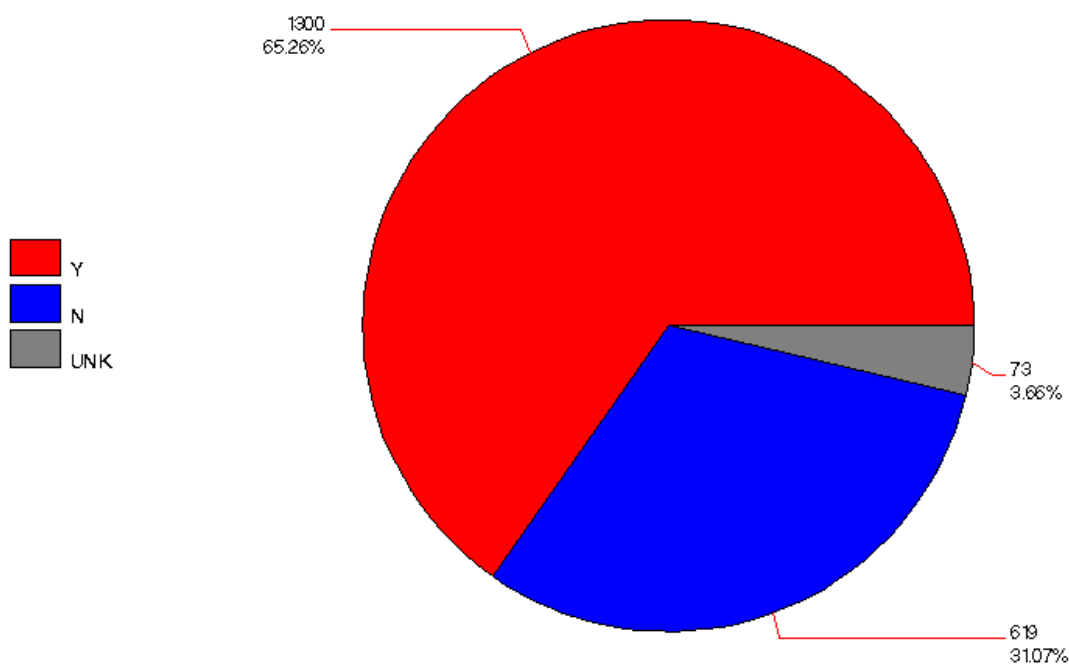
No. of specimens submitted for testing at KHEL	2034
No. of specimens testing positive for influenza A (2009 H1N1)	870 (43%)

Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)

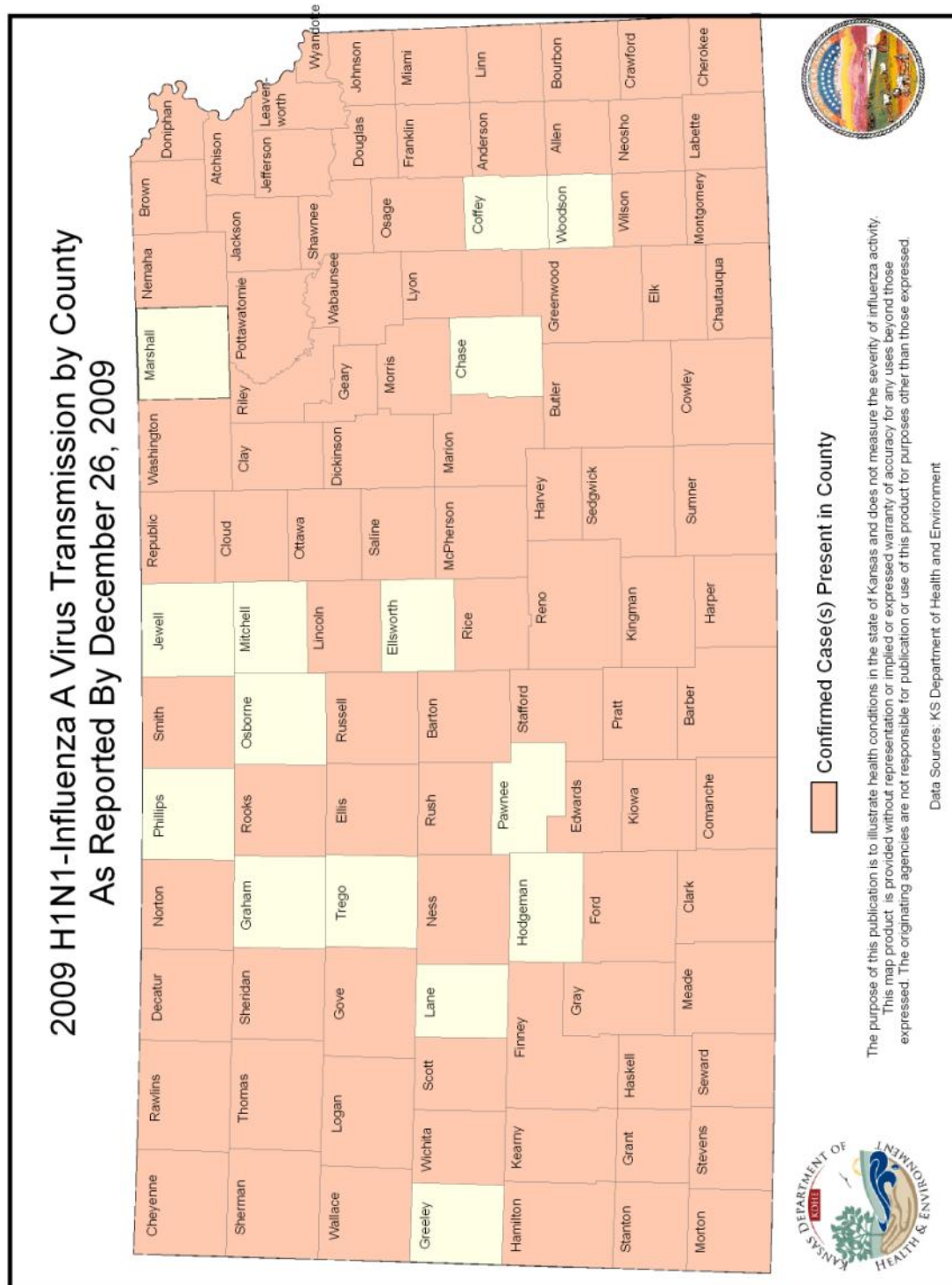
Influenza Specimens Tested at KHEL by Hospitalization Status

October 4, 2009 — December 26, 2009

FREQUENCY of Hospitalized



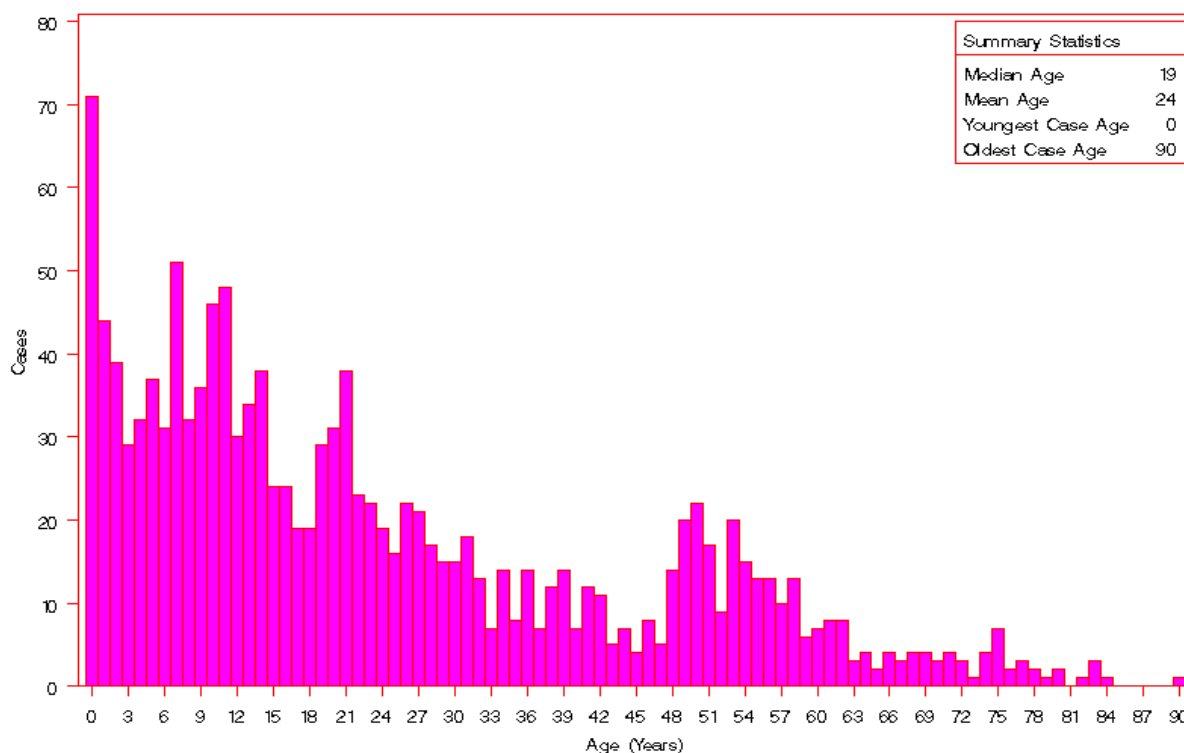
Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases



Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases

Characteristics of Laboratory Confirmed Cases	
Median Age (Years)	19.0
Age Range (Years)	<1 to 90
Percent (%) by Age Group:	
<5 Years	(16)
5 to 24 Years	(46)
25 to 49 Years	(22)
50 to 64 Years	(12)
65+ Years	(4)
Percent (%) Male	(46)
Percent (%) Hispanic or Latino	(18)
Percent (%) by Race	
White Only	(73)
Black Only	(8)
Other	(4)
Unknown	(14)
Percent (%) Died	(2)

Age Distribution of Laboratory Confirmed Cases as of December 26, 2009



Technical Notes

Outpatient Influenza-like Illness Surveillance (ILINet)

Information on patient visits to health care providers for influenza-like illness is collected through the US Outpatient Influenza-like Illness Surveillance Network (ILINet). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a KNOWN cause other than influenza.

ILINet clinics in Kansas report the number of patients seen with influenza-like illness each week. The information reflects data collected for the week ending the previous Saturday. As of December 24, 2009, seventy-one sites are enrolled in ILINet in Kansas. The maps and charts on pages 6-9 show the percentage of ILI visits reported by region and by site by week ending date. Each percentage was calculated by dividing the number of patients seen with ILI at the clinic by the total number of patients seen and multiplying by 100.

Influenza-like illness data are collected from Sunday through Saturday of each week. Each participating clinic is requested to summarize the data weekly and submit the data by noon on Tuesday of the following week. The information on these charts may change each week because of data that may have been submitted after the reporting deadline.

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems)

Hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EMSystems, a secure, online reporting system. One hundred and thirty-one (131) hospitals that have access to EMSystems are included in this surveillance program. KDHE has partnered with KHA to collect aggregate information on patients hospitalized for pneumonia or influenza.

The maps and graphs on pages 10-13 show the rate of hospital admissions for pneumonia or influenza reported by region and by hospital by week ending date. Each rate was calculated by dividing the number of patients admitted to the hospital with pneumonia or influenza by bed days. The denominator bed days was calculated by multiplying the number of staffed beds by seven.

Hospital Situational Awareness (EMSystems)

As part of a U.S. Department of Health and Human Services assessment project, hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EMSystems, a secure, online reporting system. Every Wednesday, 134 hospitals in Kansas provide information that describe the current situation of the hospital at the time of the report. The data represent a “snapshot” in time and do not take into account changes observed over a span of time.

The maps presented in this report on pages 14-16 are the responses to the following question: “Is the facility seeing an increasing demand for patient care services, such as scheduling, triage, assessment, treatment, admissions, transfer, and discharge?”. Percentages were calculated by dividing the number of hospitals that responded “Yes” by the total number of hospitals that reported information and multiplying by 100.

Mortality Due to Pneumonia or Influenza

The Office of Vital Statistics within the Bureau of Public Health Informatics at KDHE receives and preserves vital records for events (births, deaths, marriages, and divorces) which occur in Kansas. The mortality data on page 17 reflects the number and percentage of persons whose primary or underlying cause of death was attributed to pneumonia and / or influenza.

Self-Reported Influenza-like Illness

The Behavioral Risk Factor Surveillance System (BRFSS), which is coordinated and partially funded by the Centers for Disease Control and Prevention, is the largest continuously conducted telephone survey

Technical Notes (continued)

Self-Reported Influenza-like Illness (continued)

in the world. It is conducted in every state, the District of Columbia, and several United States territories. The first BRFSS survey in Kansas was conducted as a point-in-time survey in 1990, and Kansas has conducted the BRFSS survey annually since 1992.

Beginning in September 2009, the BRFSS questionnaire was revised to include questions to assess influenza-like illness among adult respondents and other members of the household. The graphs on pages 18 and 19 provide the percent of adults, children, and households reporting ILI.

School Absenteeism Surveillance

Data are collected by local health departments (LHDs) during each school week. LHDs report the number of schools with 10% or greater absenteeism and the total number of schools that submit data each week. LHDs submit data to KDHE by noon on Tuesday of the following week.

LHDs report county data in three categories: elementary school (i.e. K-5), middle school (i.e., 6-8), and high school (i.e., 9-12). The designated school category is based upon the majority of grades within the school; for instance, a school consisting of grade levels K-6 would be classified as an elementary school.

Percentages of school absenteeism by county shown on pages 20-26 may be unstable and changes over time should be interpreted with caution. "No report" classification indicates the LHD failed to report any data to KDHE. "No data" classification indicates that either the school(s) did not report any data to the LHD or there are no schools in the county for the specific school category.

Laboratory Testing at Kansas Department of Health and Environmental Laboratories (KHEL)

The information on pages 27 and 28 represents data reported to KDHE for the week ending the previous Saturday. Prior to September 1, 2009 persons with symptoms consistent with ILI were tested at KHEL. Beginning September 1, specimens were only tested if the person was hospitalized, had died and the cause of death was suspected to be influenza, or if the person was seen at an ILINet Clinic Site.

Descriptive Epidemiology for Laboratory-Confirmed H1N1 Cases at KHEL

The information on pages 29 and 30 represents data reported to KDHE for the week ending the previous Saturday. Only cases that were laboratory confirmed at KHEL are included.

Data Quality Indicators

Percentage of Sites Represented in the Current Week's Data for the Following Sections:

Outpatient Influenza-like Illness Surveillance — 54% (38 of 71 ILINet sites)

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems) - 65% (85 of 131 hospitals)

Hospital Situational Awareness (EMSystems) - 84% (113 of 134 hospitals)

School Absenteeism Surveillance— No data due to Winter break

Appendix - Number and County Location of ILINet Clinic Sites

Allen	1
Barton	2
Brown	1
Butler	1
Cherokee	1
Cheyenne	1
Clark	1
Cloud	1
Cowley	1
Crawford	1
Dickinson	3
Douglas	2
Ellis	2
Finney	1
Ford	1
Franklin	1
Geary	2
Grant	2
Greenwood	1
Harvey	1
Jefferson	1
Johnson	5
Kiowa	1
Labette	1
Leavenworth	1
Linn	1
Lyon	2
McPherson	1
Meade	1
Miami	1
Montgomery	2
Neosho	1
Pottawatomie	1
Pratt	1
Reno	2
Riley	3
Saline	2
Sedgwick	6
Seward	2
Shawnee	3
Sherman	1
Wichita	1
Wyandotte	6

Appendix - List of Hospitals Included in Hospital Surveillance Section for Current Report

ALLEN COUNTY HOSPITAL IOLA	MORTON COUNTY HEALTH SYSTEM ELKART
ATCHISON HOSPITAL	MT. CARMEL REG MEDICAL CTR PITTSBURG
BOB WILSON MEM GRANT CO HOSP ULYSSES	NEOSHO MEMORIAL RMC CHANUTE
CENTRAL KANSAS MEDICAL CTR GREAT BEND	NESS COUNTY HOSPITAL DIST. NO. 2
CHEYENNE COUNTY HOSPITAL SAINT FRANCIS	NEWTON MEDICAL CENTER
CITIZENS MEDICAL CENTER COLBY	NINNESCAH VALLEY HEALTH SYS. KINGMAN
COFFEY COUNTY HOSPITAL BURLINGTON	NORTON COUNTY HOSPITAL
COFFEYVILLE REGIONAL MEDICAL CENTER	OLATHE MEDICAL CENTER
COMANCHE COUNTY HOSPITAL COLDWATER	OSWEGO COMMUNITY HOSPITAL
COMMUNITY HOSPITAL ONAGA	OTTAWA COUNTY HEALTH CENTER MINNEAPOLIS
COMMUNITY MEMORIAL HC MARYSVILLE	PHILLIPS COUNTY HOSPITAL PHILLIPSBURG
CUSHING MEMORIAL HOSPITAL	PRATT REGIONAL MEDICAL CENTER
DECATUR COUNTY HOSPITAL OBERLIN	PROMISE REGIONAL MEDICAL CENTER HUTCHINS
EDWARDS CO. HOSP. AND HC CTR. KINSLEY	RANSOM MEMORIAL HOSPITAL OTTAWA
ELLINWOOD DISTRICT HOSPITAL	RAWLINS COUNTY HEALTH CENTER ATWOOD
GALICHIA HEART HOSPITAL	REPUBLIC COUNTY HOSPITAL BELLEVILLE
GEARY COMMUNITY HOSPITAL JUNCTION CITY	ROOKS COUNTY HEALTH CENTER PLAINVILLE
GIRARD MEDICAL CENTER	RUSH COUNTY MEMORIAL HOSPITAL LACROSSE
GOODLAND REGIONAL MEDICAL CENTER	RUSSELL REGIONAL HOSPITAL
GRAHAM COUNTY HOSPITAL HILL CITY	SABETHA COMMUNITY HOSPITAL
GREAT BEND REGIONAL HOSPITAL	SAINT JOHN HOSPITAL
GREENWOOD COUNTY HOSPITAL EUREKA	SAINT LUKE'S SOUTH HOSPITAL
HARPER COUNTY HOSP DIST NO 6 ANTHONY	SALINA REGIONAL HEALTH CENTER
HAYS MEDICAL CENTER	SATANTA DISTRICT HOSPITAL AND LTCU
HERINGTON MUNICIPAL HOSPITAL	SCOTT COUNTY HOSPITAL
HIAWATHA COMMUNITY HOSPITAL	SEDAN CITY HOSPITAL
HILLSBORO COMMUNITY HOSPITAL	SHAWNEE MISSION MEDICAL CENTER
HODGEMAN CO HEALTH CENTER JETMORE	SHERIDAN COUNTY HEALTH COMPLEX HOXIE
HOLTON COMMUNITY HOSPITAL	SMITH COUNTY MEMORIAL HOSPITAL
HORTON COMMUNITY HOSPITAL	SOUTH CENTRAL KANSAS RMC ARKANSAS CITY
JEFFERSON CO. MEM. HOSPITAL WINCHESTER	SOUTHWEST MEDICAL CENTER LIBERAL
JEWELL COUNTY HOSPITAL MANKATO	ST JOHNS MAUDE NORTON MEM HOSP-COLUMBUS
KEARNY COUNTY HOSPITAL LAKIN	ST. CATHERINE HOSPITAL GARDEN CITY
KIOWA COUNTY MEM. HOSPITAL GREENSBURG	ST. FRANCIS HEALTH CENTER TOPEKA
KIOWA DISTRICT HOSPITAL KIOWA	ST. LUKE HOSPITAL AND LIVING CTR MARION
LABETTE HEALTH PARSONS	STAFFORD DISTRICT HOSPITAL
LANE COUNTY HOSPITAL DIGHTON	STANTON HEALTH CARE FACILITY JOHNSON
LAWRENCE MEMORIAL HOSPITAL	STEVENS COUNTY HOSPITAL HUGOTON
LINCOLN COUNTY HOSPITAL	STORMONT VAIL HEALTHCARE TOPEKA
LOGAN COUNTY HOSPITAL OAKLEY	SUMNER COUNTY DIST. NO. 1 CALDWELL
MEADE DISTRICT HOSPITAL	SUSAN B. ALLEN MEM. HOSPITAL EL DORADO
MEDICINE LODGE MEMORIAL HOSPITAL	TREGO CO. LEMKE MEM. HOSPITAL WAKEENEY
MEMORIAL HOSPITAL ABILENE	UNIVERSITY OF KANSAS HOSPITAL
MEMORIAL HOSPITAL MCPHERSON	VIA CHRISTI REGIONAL MED CTR WICHITA
MERCY HOSPITAL MOUNDRIDGE	WAMEGO CITY HOSPITAL
MIAMI COUNTY MEDICAL CENTER PAOLA	WASHINGTON COUNTY HOSPITAL
MITCHELL COUNTY HOSPITAL BELOIT	WESLEY MEDICAL CENTER WICHITA
MORRIS COUNTY HOSPITAL COUNCIL GROVE	WICHITA COUNTY HEALTH CENTER LEOTI